



Comfort  
SMART  
Windows and Patio Doors





For over 35 years, Great Lakes® Window has been focused on our customers' needs to ensure that every one of our hand-crafted windows and patio doors are energy efficient and reliable. Whatever your style, we can create a custom window that complements your home.

One of the greatest benefits to you as a homeowner when choosing Great Lakes Window is our dealer network. We only work with respected professionals who are committed to helping you find the window or door that fits your unique style. When you work with a Great Lakes Window dealer, you can expect a consultative, helpful resource. And, because each dealer is local, you can be sure they will take regional factors, like climate, into account when helping you make a decision.



## Our Commitment

Our warranty covers your entire window for life and transfers to a new homeowner one time if you choose to move.

*See full warranty for details.*



# Your Guide to Performance

Choices you should consider to keep in mind when considering energy-efficient windows for your home.



## Panes of Glass

Two or three panes of glass decreases the amount of temperature transfer from outside your home.



## Glass Coatings

Thin, virtually invisible Low-E metallic coatings on the glass surface reduce heat transfer and protect against UV rays.



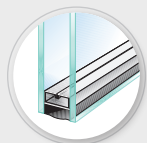
## Insulation

Optional material fills cavities within the frame and sash to improve the efficiency of your windows.



## Gas Fill

Non-toxic gases inserted between the glass panes, instead of air, help further insulate the window and increase efficiency.



## Spacer Systems

Spacers separate and secure the glass panes to optimize the performance and structure of the glass pack.



## Sound Transmission

Options like thicker glass, asymmetrical construction and high performance interlayers help keep your home quiet even if it's loud outside.



## Vinyl

UI Vinyl does not peel or chip like painted wood windows, requiring less maintenance over time.

## The Difference of Comfort SMART

We developed the ComfortSmart product line with you in mind. A sleek, beautifully-designed window with an open viewing area, ComfortSmart is the perfect window to frame your outdoor scenery, while keeping the inside of your home comfortable. Each ComfortSmart window and door is completely customizable. Choose from a variety of style options, including beautiful woodgrains, decorative grilles and designer glass to create the ideal window or patio door for you.





# Performance Features



## SmartCore Insulation (Optional Upgrade)

Our patented high-density insulation is designed to fill cavities inside your window and prevent cold air from getting into your home. SmartCore insulation provides almost two times the insulating properties of typical fiberglass insulation.



## EnergyGuard and SmartGuard Glass

Each of our windows and doors is available with special combinations of Low-E coatings, gas fills and multiple panes of glass to keep your home comfortable, no matter where you live.

**energyGUARD** **SMARTGUARD**



## Fusion-Welded Frames

The welded corners of our windows and door panels keep them strong and weather-tight year-round.



## Efficient Spacers

Our spacer systems help keep panes secure and improve window performance. Choose EnergyEdge, EnergyEdge+ or EnergyTek to make your glass packs even more efficient.



## Weatherstripping

Used in critical areas of your windows and doors, weatherstripping helps keep the elements out.





# A More Comfortable View.

If you're dealing with drafty windows, temporary solutions like sealants and weatherstripping won't keep your home comfortable for long. ComfortSmart windows will seal out unwanted cold and heat, saving you a bundle on heating and cooling costs. So while Mother Nature stays out, you stay safe and sound all year-round.

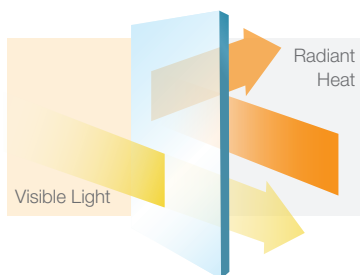
## Highly efficient windows with high standards.

ComfortSmart windows are built to resist the heat and cold, offering four-season comfort. Need proof? We meet or exceed the current standards for ENERGY STAR® Version 7.0 requirements in all 50 states.

Windows with a low U-Factor and a low Solar Heat Gain Coefficient rating help to provide comfort all year long. Below are four common ratings that are provided for windows certified by the National Fenestration Rating Council (NFRC), the American National Standards Institute (ANSI) and the American Architectural Manufacturers Association (AAMA). These are some of the same ratings that are used to certify products.

### ➤ U-Factor

A measure of the rate of heat flow through a window. The greater a window's resistance to heat flow the better its insulating properties. A lower U-Factor indicates a higher performing window that can help reduce heating and cooling costs.

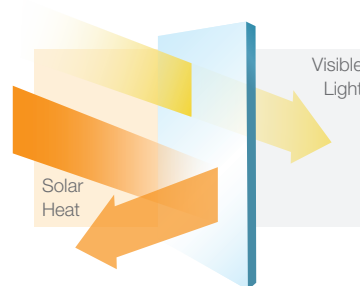


### ➤ Visible Light Transmittance (VT)

The measure of how much light passes through a window.

### ➤ Solar Heat Gain Coefficient (SHGC)

The amount of solar radiation allowed to pass through a window. The lower the number, the less solar heat gain the window permits.



### ➤ Structural-Design Pressure (DP)

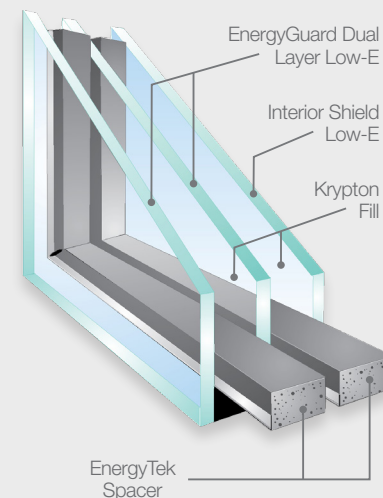
The amount of wind pressure a window will withstand when closed and locked.

## Top Performing Glass Packages

Based on double hung window configuration

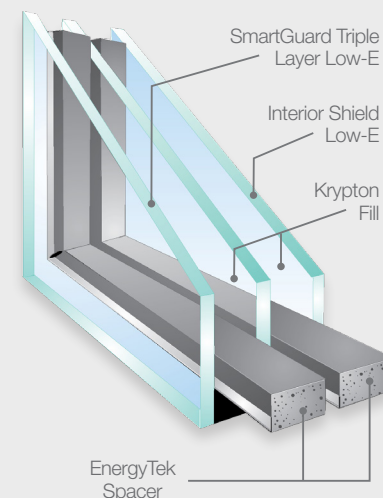
### ➤ EnergyGuard 3<sup>KR</sup> IS

0.14 (U-Value) 0.21 (SHGC)



### ➤ SmartGuard 3<sup>KR</sup> IS

0.17 (U-Value) 0.18 (SHGC)







Confidently invite the  
light into your home.



# Keep Interior Colors Bold and Bright.

Letting in a little sunshine is great – until it fades everything inside your home. Our windows feature spectrally-selective Low-E coatings that let in the sun's light while reducing fading by reflecting most damaging UV rays and acting as a sunscreen for furnishings and floors. The result is a more comfortable home year round.

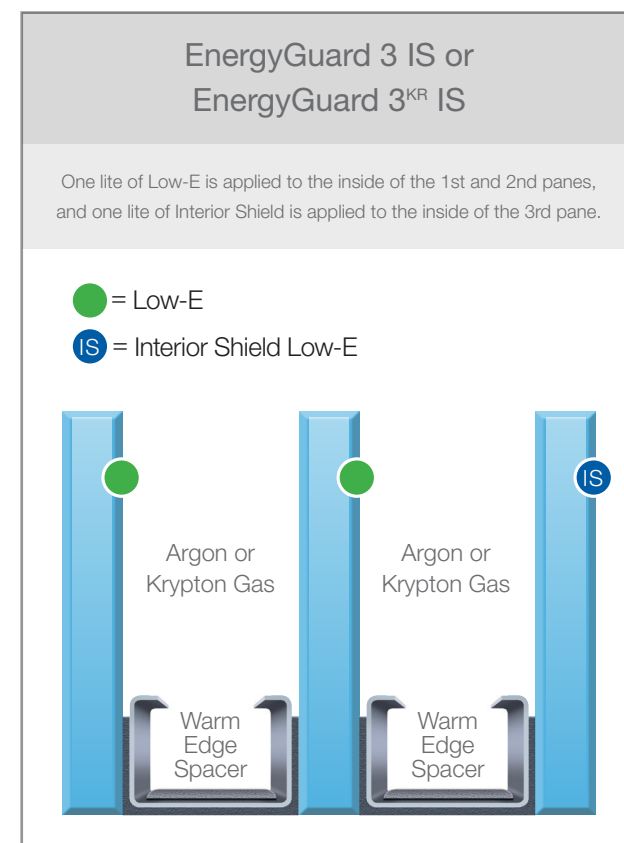
## Efficient Glass Design

Double- or triple-pane glass units with our high-performance Low-E coatings make our windows more energy efficient. When we fill the space between the panes with argon or krypton gas, our windows can reach up to nine times the insulation value of single-pane windows.

## Low-E Options

With Low-E coating options, ComfortSmart windows work to your advantage throughout every season. If you live in a Northern climate zone, EnergyGuard glass systems can keep your home comfy and can help lower heating bills in the winter. How? By allowing some of the sun's heat energy to enter the home to provide passive and free home heating while reducing the heat that escapes from the home.

The same goes for keeping cool in the summer heat. Instead of blocking out the sun with dark drapes or blinds, our Low-E coatings block the sun's damaging rays and reflect heat, keeping your sunny rooms more comfortable. In fact, our glass insulation and Low-E coatings can help block the majority of the sun's damaging UV rays. This means more protection from fading for your furnishings, carpets and floors, and more comfort for you.







## Double Hung Windows

These windows are popular for multiple reasons. Why? Their classic style, great performance and they're easy to use. They open at the top and bottom for better ventilation and airflow. Both top and bottom sash tilt in for effortless cleaning and the screens are removable from inside the home.



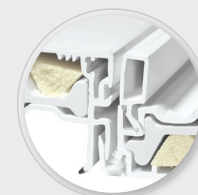
**Tilt-in sashes**  
make it easy to clean from inside your home



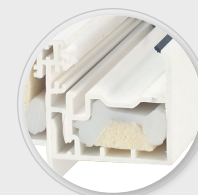
**Ventilation limit latches**  
prevent windows from sliding past a certain point when partially opened



**Flush-mounted locks**  
create a sleek, polished look, and optional EZLok system allows you to tilt and securely lock your windows with one simple motion



**Interlocking sashes**  
overlap to help eliminate air infiltration when the window is closed (shown with optional RigidCore)



**RigidCore reinforcement**  
This option can be used to provide extra strength in the meeting rail, helping your windows keep their shape





# Sliding Windows

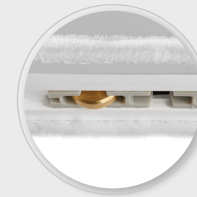
A horizontal window style that is best for framing great outdoor views – Sliding windows are available in two- or three-panel configurations and slide open horizontally with the simple push of a finger.



**Integrated pull rails**  
make opening and closing the window easy



**Ventilation limit latches**  
prevent windows from sliding past a certain point when partially opened



**Roller system**  
allows the window to glide open and close smoothly



**Interlocking sashes**  
overlap to help eliminate air infiltration when the window is closed



**RigidCore reinforcement**  
This option can be used to provide extra strength in the meeting rail helping your windows keep their shape





# Casement & Awning Windows

Window styles that fit both contemporary and traditional homes – Casement and Awning windows open outward and are the most energy efficient styles because the sash is fully encompassed inside the frame when closed.

Casement



Awning



## Multi-point locking system

locks your windows at multiple critical points



## Fold-away nesting handles

create a sleek look for your windows and don't interfere with blinds by keeping the crank out of the way



## Dual bulb seal

helps prevent air infiltration when the window is closed

## Hopper Windows

Great for basements, hopper windows are hinged at the bottom and open inward at the top to increase ventilation and natural light.



# Picture & Shape Windows

Decorative, fixed window styles that enhance the personality of your home and create curb appeal – Picture and Shape windows come in a variety of shapes and sizes so you can create custom configurations.



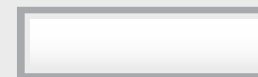
## Shaped Window Examples



Extended Half-round



Ellipse



Rectangle



Square



Custom Shapes Available



Octagon



Full Round



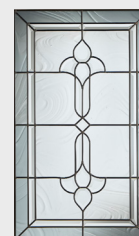
Triangle



Half Circle

## Designer Glass

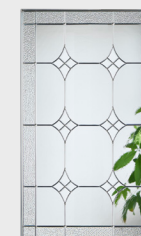
Add another layer of beauty to your picture and shape windows with our 12 designer glass options that can be fully customized to match the style of your home.



Covington



Somerton



Stanton



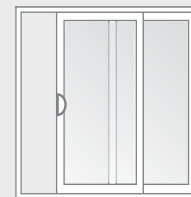
Visit our website, **GreatLakesWindow.com** to see all of our picture, shape and designer glass options.



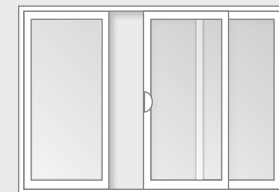
# Sliding Patio Doors

Patio Doors are available in two-, three- and four-panel configurations that glide open smoothly to connect your indoor and outdoor living space then close tight to keep your home secure.

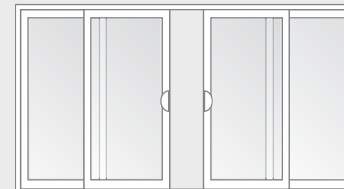
## Configuration Options



Two panel widths: 5', 6', 8'



Three panel widths: 9', 12'



Four panel widths: 10', 12', 16'

Panel heights: 6'8", 6'10", 8'

*All widths and heights are customizable.*



### Unique three-point locking system

secures doors at critical points and increases security. Also available in single or dual locking systems



### Fiberglass threshold

adds strength and resists frost and condensation to keep doors operating like new



### Footbolt lock

optional to increase security and peace of mind – even while doors are open

## EuroGlide® Operating System

Upgrade to the EuroGlide operating system and never struggle to open and close your patio door again. The EuroGlide patio door completely lifts off the sill each time you open it to eliminate all friction and allow the door to slide with ease.

*Door mechanisms, including locking system and threshold differ from those used within Premier Sliding Patio Doors.*



Moving the handle 180° actually lifts the door off the sill, enabling it to glide effortlessly.



## Bay & Bow Windows

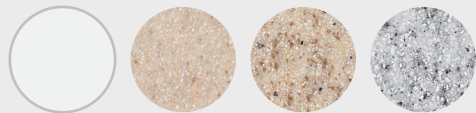
Our bay and bow windows are available in a wide range of styles and are custom made for a perfect fit whether you're replacing a bay or bow window, or want to install one in a large window opening.



### Seat Insulation

Our bay and bow seats feature a multi-layer construction which consists of two layers of structural support as well as a layer of 3/4" closed-cell insulating foam for premium insulation. The interior is finished with a birch veneer hardwood cap, or can be upgraded to oak.

### Corian® Solid Surface Seat Options



Cameo White Beach Sandstone Dusk



## Garden Windows

Love growing herbs, flowers and plants in your home? Then put them somewhere they can thrive. They let light in on all four sides. And they feature casement-style sidelites that let fresh air in and keep cold temperatures out.



### Locks and fold-away nesting handles

Our locks and nesting handles on our garden windows maintain security while creating a sleek look.

### Interior Frame Head, Seat & Jamb Options

#### Laminated Interior Options



White Beige

#### Stained Head and Seat Options



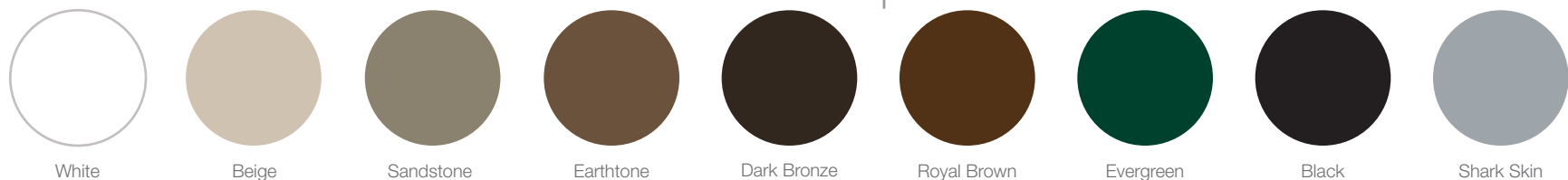
Golden Oak Natural Oak Colonial Cherry Rosewood



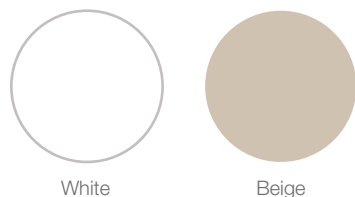
# Your Guide to Customization

Make each window and patio door your own with a wide range of style options. Whether you want to match your home's current style or create a bold new look, the right style selections can go a long way.

## Exterior Colors



## Interior Colors



## Woodgrains



*All interior colors and woodgrains cannot be combined with all exterior colors. Colors are reproduced as accurately as print technology allows. Please see your Great Lakes Window dealer for actual samples.*

## Trim Accessories

Give your installed window a polished look with our matching trim and jamb extensions. We use the same color process for trim that we do for windows.



*Available in Primed Pine, Clear Pine, Cellular PVC, and InfiniTrim Interior Moulding (Interior moulding in Golden Oak, Natural Oak, Colonial Cherry, and Rosewood)*

## Window Screens

Our windows are available\* with FlexScreen, the world's most flexible screen. Easy to use and easy to clean FlexScreen springs into the opening, making installing and removing our screens easy. And the low-profile design allows water to cascade over the screen frame, making cleaning a snap.

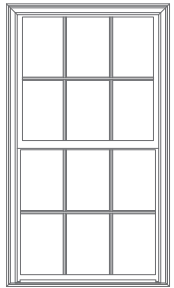
*\*Not available in casement windows*



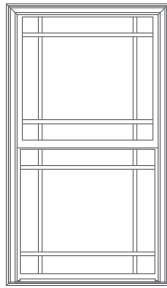


## Grille Styles\*

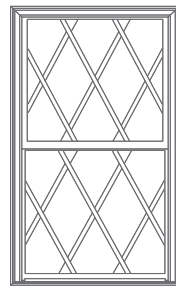
Looking for a way to accentuate your home's architectural style? Grilles can help create a traditional or contemporary look.



Colonial



Perimeter Prairie

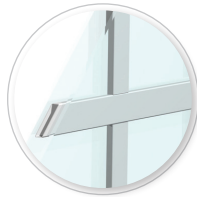


Diamond

\*Visit [GreatLakesWindow.com](http://GreatLakesWindow.com) for all grille style options

## Grille Types

ComfortSmart windows are available with two different grille types: Grilles Between the Glass (GBG), which allow for easy cleaning, and Simulated Divided Lite (SDL) mounted on the outside of the glass, which create a more traditional look.



5/8" Classic



11/16" Williamsburg



7/8" Simulated Divided Lite

## Window Hardware Finishes

With ComfortSmart it's easy to choose a hardware finish for your window that complements the other hardware in your home.



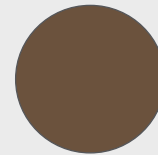
White



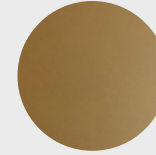
Beige



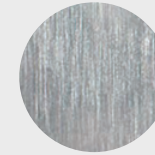
Pontiac Gold



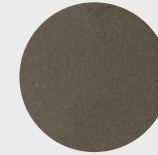
Earthtone



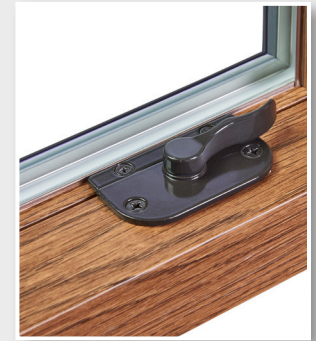
Classic Brass



Satin Nickel



Bronze



## Door Handle Finishes

Color coordinate your interior and exterior patio door handlesets to match your décor.

### Standard Handlesets



White Beige Bronze

### Upgraded Lock & Key Handlesets



Satin Nickel Bronze Classic Brass

### Premium Upgraded Handlesets



Satin Nickel Oil-Rubbed Bronze Classic Brass

### EuroGlide Handlesets



White Brushed Nickel Resista Brass Rustic Umber Black

*Not all hardware finishes can be combined with all customization options. Please see your Great Lakes Window dealer for specific guidelines.*





**GREAT LAKES® WINDOW** | 30499 Tracy Road | Walbridge, OH 43465 | 844.247.6226 | [GreatLakesWindow.com](http://GreatLakesWindow.com)